Amendments to the Claims

The following claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (withdrawn) A composition comprising an isolated human polynucleotide (om human brain selected from the group consisting of:
 - (a) a polynucleotide comprising the potassium channel Kv4.3 nucleotide equence set forth in SEQ. ID NO. 1 or in SEQ. ID NO. 3, deposited under access ion number ATCC-___;
 - (b) a polynucleotide having at least 90% identity over its entire length to a polynucleotide encoding a potassium channel Kv4.3 polypeptide of SE(ID NO: 2 or SEQ ID NO: 4;
 - (c) a polynucleotide which is an allelic variant of the polynucleotide of (a)-(b) above;
 - (d) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(c).
 - 2. (withdrawn) An isolated DNA molecule encoding a Kv4.3 potassium chant el polypeptide having the amino acid sequence set forth in SEQ ID NO: 2 or SEQ ID NO: 4.
 - 3. (withdrawn) The isolated DNA sequence of claim 2, having the nucleotile sequence set forth in SEQ ID NO: 1 or SEQ ID NO: 3.
 - 4. (withdrawn) The polynucleotide of claim 1 wherein said polynucleotide is operably linked to at least one expression control sequence.
 - 5. (withdrawn) A host cell transformed with the polynucleotide of claim 1.
 - 6. (withdrawn) The host cell of claim 5 wherein said cell is a prokaryotic or (ukaryotic cell.
 - 7. (withdrawn) A process for producing a Kv4.3 potassium channel polypeptide comprising the steps of introducing the polynucleotide of claim 1 into a host cell, growing a culture of the host cell in a culture medium so that said host expresses the Kv4.3 polypept de, and purifying the polypeptide from the culture medium or host cell.

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